

**ABSTRACT**

The present invention, in its broadest expression, includes (a) the Pleasure-Arousal-Dominance (PAD) table of emotions that makes it possible (b) to convert  
5 emotion terms to their respective PAD values, (c) a formula for working back from any specific set of PAD values to derive a single emotion term that best fits that particular combination of PAD values, (d) a formula for calculating the distance between a preselected set of PAD values and the closest emotion term that matches those PAD values, (e) a method for calculating the average emotional  
10 response of a group to any situation or stimulus, thereby permitting the derivation of a single emotion term that best represents the average emotional experience of the group. (f), a generic procedure for deriving emotion terms from multi-dimensional statistical models. The present invention finds use as an emotion simulator, particularly in the field of closed and open loop systems, such as a  
15 heating system, in order to represent how the system is performing.